This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims**

Claim 1 (Previously Presented) A glass comprising:

Mole %
35 – 75
0-10
0 - 8
0 - 8
>0 - 25
0 - 60
0 - 6
0
0 - 10
0 – 5
0 – 30
0 - 12
>0 - 30
0 - 0.5
0 - 5
0 - 40

wherein RE represents rare earth ions, excluding La.

Claim 2 (Previously Presented) A glass according to claim 1, having the following properties:

Property	Range
Nd	>1.5
T(%) at 1550 nm for 1.0 mm	>88
CTE	$\geq$ 90, especially $\geq$ 110
$(-30 \text{ to } + 70^{\circ}\text{C})$	
x 10 <sup>-7</sup> /°C	
E (GPa)	> 80
Tg (°C)	<u>≥</u> 350

Claim 3 (Previously Presented) A glass according to claim 1, comprising:

Oxide	Mole %
SiO <sub>2</sub>	40 – 70
GeO <sub>2</sub>	0-5
B <sub>2</sub> O <sub>3</sub>	0 - 5
Al <sub>2</sub> O <sub>3</sub>	0 - 5
Li <sub>2</sub> O	>0 - 25
Na <sub>2</sub> O	0 - 35
K <sub>2</sub> O	0 - 5
MgO	0
Σ BaO, SrO, CaO, ZnO, PbO	0 - 5
TiO <sub>2</sub>	0 - 3
La <sub>2</sub> O <sub>3</sub>	0 - 12
RE <sub>2</sub> O <sub>3</sub>	0 - 10
Y <sub>2</sub> O <sub>3</sub>	>0 - 25

A\$2O3	0 - 0.3
F	0 - 3
Sum R <sub>2</sub> O <sub>3</sub> , R=Al, B, La and RE	0 - 40

Claim 4 (Previously Presented) A glass according to claim 3, having the following properties:

Property	Range
Nd	1.50 - 1.70, especially
	1.50 - 1.65
T(%) at 1550 nm for 1.0	>90
mm	
CTE	>100, especially $>110$
$(-30 \text{ to } + 70^{\circ}\text{C})$	
х 10 <sup>-7</sup> /°С	
Tg (°C)	<u>≥</u> 400
E [GPa]	>85

Claim 5 (Previously Presented) A glass comprising:

Oxide	Mole %
SiO <sub>2</sub>	40-60
GeO <sub>2</sub>	0-10
B <sub>2</sub> O <sub>3</sub>	0-10
Al <sub>2</sub> O <sub>3</sub>	0-4
Li <sub>2</sub> O	>0-26
Na <sub>2</sub> O	>0-26

K <sub>2</sub> O	0-15
MgO	0
Σ BaO, SrO, CaO, ZnO, PbO	0-10
TiO <sub>2</sub>	0-9
ZrO <sub>2</sub>	0-2
La <sub>2</sub> O <sub>3</sub>	0-4
Re <sub>2</sub> O <sub>3</sub>	0-4
Y <sub>2</sub> O <sub>3</sub>	>0-5
Sc <sub>2</sub> O <sub>3</sub>	0-4
Nb <sub>2</sub> O <sub>5</sub>	0-2
F	0-5
$\Sigma$ R <sub>2</sub> O <sub>3</sub> , R=Al, B, La, and RE	0-25
As <sub>2</sub> O <sub>3</sub>	0-0.5

Claim 6 (previously presented) A glass according to claim 5, having the following properties:

Property	Range
Nd	> 1.5
T(%) at 1550 nm for 1.0	
mm	> 88
CTE	
(-30 to +70°C)	≥ 90
x 10 <sup>-7</sup> / <sup>0</sup> C	
E (GPa)	> 80
Tg (°C)	≥ 350

Claim 7 (previously presented) A glass according to claim 5 comprising:

Oxide	Mole %
SiO <sub>2</sub>	45-55
GeO <sub>2</sub>	0-5
B <sub>2</sub> O <sub>3</sub>	0-8
Al <sub>2</sub> O <sub>3</sub>	0-2
Li <sub>2</sub> O	>0-17
Na <sub>2</sub> O	>0-19
K <sub>2</sub> O	0-6
MgO	0
Σ BaO, SrO,CaO, ZnO, PbO	0-5
TiO <sub>2</sub>	0-5
ZrO <sub>2</sub>	0-1
La <sub>2</sub> O <sub>3</sub>	0-3
RE <sub>2</sub> O <sub>3</sub>	0-3
Y <sub>2</sub> O <sub>3</sub>	>0-4.5
Sc <sub>2</sub> O <sub>3</sub>	0-3
Nb <sub>2</sub> O <sub>5</sub>	0-1
F	0-3
$\sum$ R <sub>2</sub> O <sub>3</sub> , R=A1, B, La, and RE	0-15
As <sub>2</sub> O <sub>3</sub>	0-0.3

Claim 8 (previously presented) A glass according to claim 7, having the following properties:

Property	Range
<b>n</b> d	1.50-1.70
T(%) at 1550 nm for 1.0	
mm	> 90
CTE	
(-30 to +70°C)	≥ 100
x 10 <sup>-7</sup> / <sup>0</sup> C	
Tg (°C)	≥ 400
E [GPa]	> 85

Claim 9 (previously presented) A glass comprising:

Oxide	Mole %
SiO <sub>2</sub>	45.0-58.0
B <sub>2</sub> O <sub>3</sub>	0.0-5.0
A12O3	0.0-3.0
Li20	6.5-16.5
Na <sub>2</sub> O	7.0-24.0
K <sub>2</sub> O	0.0-12.0
MgO	0.0
CaO	0.0-8.0

SrO	0.0-8.0
BaO	0.8-0.0
TiO <sub>2</sub>	0.0-12.0
ZrO <sub>2</sub>	0.5-5.5
Ta <sub>2</sub> O <sub>5</sub>	0.0-1.0
Gd <sub>2</sub> O <sub>3</sub> +La <sub>2</sub> O <sub>3</sub> +Y <sub>2</sub> O <sub>3</sub>	2.70-3.30
AS2O3	0.0-0.15

Claim 10 (previously presented) A glass according to claim 9, having the following properties:

Property	Range
<b>n</b> d	>1.5
T(%) at 1550 nm for 1.0	>88
mm	
CTE	<u>&gt;</u> 90
$(-30 \text{ to } + 70^{\circ}\text{C})$	j
x 10 <sup>-7</sup> /°C	
E (GPa)	>80
Tg (°C)	400-485

Claim 11 (previously presented) A glass according to claim 9, comprising:

Oxide	Mole %
SiO <sub>2</sub>	46.0-52.0
Al <sub>2</sub> O <sub>3</sub>	0.0-1.5
B <sub>2</sub> O <sub>3</sub>	0.0-1.0
Li <sub>2</sub> O	7.0-16.0
Na <sub>2</sub> O	7.0-20.0
K <sub>2</sub> O	4.0-12.0
MgO	0.0
CaO	0.0-7.5

SrO	0.0-7.5
BaO	0.0-7.5
TiO <sub>2</sub>	1.0-10.5
ZrO <sub>2</sub>	1.5-5.0
Ta2Os	0.3-0.7
$La_2O_3 + Gd_2O_3 + Y_2O_3$	2.6-2.9
As <sub>2</sub> O <sub>3</sub>	0.0-0.15

Claim 12 (previously presented) A glass according to claim 11, having the following properties:

Property	Range
n <sub>d</sub>	1.50 - 1.70
T(%) at 1550 nm for 1.0	>88
mm	
CTE	>100
$(-30 \text{ to } + 70^{\circ}\text{C})$	
x 10 <sup>-7</sup> /°C	
Tg (°C)	415-480
E [GPa]	>80

Claim 13 (withdrawn) An interference filter comprising a glass substrate having at least two interference layers coated thereon, wherein the glass substrate is a glass according to claim 1.

Claim 14 (withdrawn) An interference filter comprising a glass substrate having at least two interference layers coated thereon, wherein the glass substrate is a glass according to claim 5.

Claim 15 (withdrawn) An interference filter comprising a glass substrate having at least two interference layers coated thereon, wherein the glass substrate is a glass according to claim 9.

Claim 16 (withdrawn) A fiber optic system comprising a light source, a fiber optic transmission component, a receiver of transmitted radiation and an interference filter comprising a glass substrate having at least two interference layers coated thereon, said glass substrate comprising a glass according to claim 1.

Claim 17 (withdrawn) A fiber optic system comprising a light source, a fiber optic transmission component, a receiver of transmitted radiation and an interference filter comprising a glass substrate having at least two interference layers coated thereon, said glass substrate comprising a glass according to claim 5.

Claim 18 (withdrawn) A fiber optic system comprising a light source, a fiber optic transmission component, a receiver of transmitted radiation and an interference filter comprising a glass substrate having at least two interference layers coated thereon, said glass substrate comprising a glass according to claim 9.

Claim 19 (withdrawn) A process for making a glass according to claim 1, comprising melting raw materials corresponding to oxides in the glass, refining a resultant glass melt, casting the melt in a moled and optionally annealing.

Claim 20 (withdrawn) A process for making a glass according to claim 1, comprising casting into a moled a glass melt produced from raw materials corresponding to oxides in the glass.

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Claim 21 (withdrawn) A process for making a glass according to claim 5, comprising casting into a moled a glass melt produced from raw materials corresponding to oxides in the glass.

Claim 22 (withdrawn) A process for making a glass according to claim 9, comprising casting into a moled a glass melt produced from raw materials corresponding to oxides in the glass.

Claim 23 (withdrawn) A demultiplexing optical component comprising the interference filter of claim 13.

Claim 24 (withdrawn) A demultiplexing optical component comprising the interference filter of claim 14.

Claim 25 (withdrawn) A demultiplexing optical component comprising the interference filter of claim 15.

Claim 26 (withdrawn) A method of demultiplexing, comprising passing an optical signal of multiple wavelengths through a demultiplexing optical component according to claim 23.

Claim 27 (withdrawn) A method of demultiplexing, comprising passing an optical signal of multiple wavelengths through a demultiplexing optical component according to claim 24.

Claim 28 (withdrawn) A method of demultiplexing, comprising passing an optical signal of multiple wavelengths through a demultiplexing optical component according to claim 25.

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Claim 29 (new) A glass comprising:

Oxide	Mole %
SiO <sub>2</sub>	35 - 75
GeO <sub>2</sub>	0-10
B <sub>2</sub> O <sub>3</sub>	0 - 8
Al <sub>2</sub> O <sub>3</sub>	0 - 8
Li <sub>2</sub> O	>0 - 25
Na <sub>2</sub> O	0 - 60
K <sub>2</sub> O	0 – 6
MgO	0
Σ BaO, SrO, CaO, ZnO, PbO	0 - 10
TiO <sub>2</sub>	0 – 5
La <sub>2</sub> O <sub>3</sub>	0 - 30
RE <sub>2</sub> O <sub>3</sub>	0 - 12
Y <sub>2</sub> O <sub>3</sub>	4.5 – 30
As <sub>2</sub> O <sub>3</sub>	0 - 0.5
F	0 - 5
Sum R <sub>2</sub> O <sub>3</sub> , R=Al, B, La and RE	0 - 40

Claim 30 (new) A glass according to claim 1, comprising:

Oxide	Mole %
SiO <sub>2</sub>	40 - 70
GeO <sub>2</sub>	0-5
B <sub>2</sub> O <sub>3</sub>	0 - 5

Al <sub>2</sub> O <sub>3</sub>	0 – 5
Li <sub>2</sub> O	>0 - 25
Na <sub>2</sub> O	0 - 35
K <sub>2</sub> O	0 – 5
MgO	0
Σ BaO, SrO, CaO, ZnO, PbO	0 – 5
TiO <sub>2</sub>	0 – 3
La <sub>2</sub> O <sub>3</sub>	0 - 12
RE <sub>2</sub> O <sub>3</sub>	0 - 10
Y <sub>2</sub> O <sub>3</sub>	4.5 – 25
As <sub>2</sub> O <sub>3</sub>	0 - 0.3
F	0 - 3
Sum R <sub>2</sub> O <sub>3</sub> , R=Al, B, La and RE	0 - 40

Claim 31 (new) A glass comprising:

Oxide	Mole %
SiO <sub>2</sub>	40-60
GeO <sub>2</sub>	0-10
B2O3	0-10
Al <sub>2</sub> O <sub>3</sub>	0-4
Li <sub>2</sub> O	>0-26
Na <sub>2</sub> O	>0-26
K <sub>2</sub> O	0-15
MgO	0
Σ BaO, SrO, CaO, ZnO, PbO	0-10

TiO <sub>2</sub>	0-9
ZrO <sub>2</sub>	0-2
La <sub>2</sub> O <sub>3</sub>	0-4
Re <sub>2</sub> O <sub>3</sub>	0-4
Y <sub>2</sub> O <sub>3</sub>	4.5-0-5
Sc <sub>2</sub> O <sub>3</sub>	0-4
Nb <sub>2</sub> O <sub>5</sub>	0-2
F	0-5
$\sum$ R <sub>2</sub> O <sub>3</sub> , R=Al, B, La, and RE	0-25
AS2O3	0-0.5

Claim 32 (new) A glass according to claim 5 comprising:

Oxide	Mole %
SiO <sub>2</sub>	45-55
GeO <sub>2</sub>	0-5
B <sub>2</sub> O <sub>3</sub>	0-8
Al <sub>2</sub> O <sub>3</sub>	0-2
Li <sub>2</sub> O	>0-17
Na <sub>2</sub> O	>0-19
K <sub>2</sub> O	0-6
MgO	0
∑ BaO, SrO,CaO, ZnO, PbO	0-5
TiO <sub>2</sub>	0-5
ZrO <sub>2</sub>	0-1
La <sub>2</sub> O <sub>3</sub>	0-3

RE <sub>2</sub> O <sub>3</sub>	0-3
Y <sub>2</sub> O <sub>3</sub>	4.5-4.9
Sc <sub>2</sub> O <sub>3</sub>	0-3
Nb <sub>2</sub> O <sub>5</sub>	0-1
F	0-3
$\sum$ R <sub>2</sub> O <sub>3</sub> , R=Al, B, La, and RE	0-15
As <sub>2</sub> O <sub>3</sub>	0-0.3

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